

In the Claims:

Please amend claims 16 and 29, and add new claims 68-71 as follows:

1-15. (Canceled)

16. (Currently amended) A liquid crystal display apparatus comprising:

a pair of substrates;

a liquid crystal arranged between said pair of the substrates;

gate lines and drain lines on one of said pair of substrates;

a plurality of stripe electrodes disposed entirely within an area bordered by said gate lines and said drain lines;

a vertical alignment layer formed on one of said substrates;

said stripe electrodes including first and second groups of stripe electrodes which are in parallel to each other along a surface of each of the substrates and are alternately provided, the first group of the stripe electrodes being supplied with a first voltage, and the second group of stripe electrodes being supplied with a second voltage different from the first voltage;

a transparent electrode having an entirely solid surface and a vertical alignment layer formed on the other substrate; and

an insulating layer covering at least one of the first and second groups of stripe electrodes and arranged under the alignment layer formed on the one of said substrates.

17. (Original) A liquid crystal display apparatus according to claim 16, wherein a volume resistivity of the insulating layer is larger than a volume resistivity of the alignment layer.

18-28. (Canceled)

29. (Currently amended) A liquid crystal display apparatus comprising:

a pair of substrates;

a liquid crystal arranged between said pair of substrates;

a plurality of stripe electrodes and a vertical alignment layer formed on one of said substrates;

said stripe electrodes including first and second groups of stripe electrodes which are in parallel to each other along a surface of each of the substrates and are alternately provided, the first group of the stripe electrodes being supplied with a first voltage, and the second group of stripe electrodes being supplied with a second voltage different from the first voltage;

a transparent electrode having an entirely solid surface and a vertical alignment layer formed on the other substrate,

said first group of stripe electrodes receiving one of a voltage which corresponds to image data and a common voltage,

said second group of stripe electrodes and said transparent electrode receiving the other of the voltage which corresponds to image data and the common voltage,

such that alignment of said liquid crystal is changed according to an electric field between said first group of stripe electrodes and said second group of stripe electrodes, and an electric field between said first group of stripe electrodes and said transparent electrode; and

an insulating layer formed on said one substrate under the alignment layer to cover the first and second groups of stripe electrodes, said insulating layer being partially removed in the vicinity of at least one of the first and second groups of stripe electrodes.

30. (Canceled)

31. (Withdrawn) A liquid crystal display apparatus comprising:

a pair of substrates;

a liquid crystal arranged between said pair of the substrates;

a plurality of stripe electrodes and an alignment layer formed in one of said substrates;

a transparent electrode covering substantially the whole surface of the other substrate and an alignment layer formed in the other substrate;

a sealed liquid injection hole; and

a dielectric layer inserted between said transparent electrode and said liquid crystal layer, a region of said dielectric layer in the vicinity of a side of the liquid crystal display apparatus far from the liquid crystal injection hole being partially removed.

32. (Withdrawn) A liquid crystal display apparatus comprising:

a pair of substrates;

a liquid crystal arranged between said pair of substrates;

a plurality of stripe electrodes and an alignment layer formed in one of said substrates;

a transparent electrode covering substantially the whole surface of the other substrate and an alignment layer formed in said other substrate;

a sealed liquid injection hole; and

an insulating layer formed in said one substrate under said alignment layer to cover said stripe electrodes, a region of said insulating layer in the vicinity of a side of the

liquid crystal display apparatus far from the liquid crystal injection hole being partially removed.

33-56. (Canceled)

57. (Withdrawn) A liquid crystal display apparatus comprising:

a pair of substrates;

a liquid crystal arranged between said pair of substrates;

a plurality of stripe electrodes per pixel and an alignment layer formed in one of said substrates;

a transparent electrode covering substantially the whole surface of the other substrate and an alignment layer formed in the other substrate;

a dielectric layer arranged in said other substrate between said transparent electrode and said liquid crystal layer; and

said dielectric layer having a surface formed in a curved shape such that a normal vector at a point on the surface of said dielectric layer is closer to a line which is parallel to an electric line of force penetrating that point than that when said dielectric layer has a surface formed in a planar shape.

58. (Original) A liquid crystal display apparatus comprising:
pair of substrates;
a liquid crystal arranged between said pair of substrates;
a plurality of stripe electrodes per pixel and an alignment layer formed in one
of said substrates;
a transparent electrode covering substantially the whole surface of the other
substrate and an alignment layer formed in the other substrate;
an insulating layer arranged in said one substrate to cover said stripe electrodes;
and
said insulating layer having openings above said stripe electrodes, said
openings having tapered side walls.

59. (Withdrawn) A liquid crystal display apparatus comprising:
a pair of substrates;
a liquid crystal arranged between said pair of substrates;
a plurality of stripe electrodes per pixel and an alignment layer formed in one
of said substrates;
a transparent electrode covering substantially the whole surface of the other
substrate and an alignment layer formed in the other substrate;

a dielectric layer arranged in said other substrate between said transparent electrode and said liquid crystal layer; and

said dielectric layer satisfying a relationship of $0.5 < d/\epsilon$, where d is the thickness of a dielectric layer, and ϵ is a relative dielectric constant.

60. (Withdrawn) A liquid crystal display apparatus according to claim 59, wherein said dielectric layer satisfies a relationship of $0.5 < d/\epsilon < 0.9$.

61. (Withdrawn) A liquid crystal display apparatus comprising:
a pair of substrates;
a liquid crystal arranged between said pair of substrates;
a plurality of stripe electrodes per pixel and an alignment layer formed in one of said substrates;

a transparent electrode covering substantially the whole surface of the other substrate and an alignment layer formed in the other substrate;

a dielectric layer arranged in said other substrate between said transparent electrode and said liquid crystal layer; and

said dielectric layer comprising a color filter layer and a transparent resin layer.

62. (Withdrawn) A liquid crystal display apparatus according to claim 61, wherein a thickness of said transparent resin layer is greater than that of said color filter layer.

63. (Withdrawn) A liquid crystal display apparatus comprising:

- a pair of substrates;
- a liquid crystal arranged between said pair of substrates;
- a plurality of stripe electrodes per pixel and an alignment layer formed in one of said substrates;
- a transparent electrode covering substantially the whole surface of the other substrate and an alignment layer formed in the other substrate;
- a dielectric layer arranged in said other substrate between said transparent electrode and said liquid crystal layer; and
- said dielectric layer having an optical anisotropy.

64. (Withdrawn) A liquid crystal display apparatus according to claim 63, wherein said dielectric layer comprises a major dielectric layer and an alignment layer to cause said major dielectric layer to be aligned, said major dielectric material being applied onto said alignment layer and aligned, and being cured by irradiation of light or heating.

65. (Previously presented) A liquid crystal display apparatus according to claim 16, wherein a voltage supplied to the transparent electrode formed on the other substrate is the same as either the first voltage or the second voltage.

66. (Previously presented) A liquid crystal display apparatus according to claim 17, wherein a voltage supplied to the transparent electrode formed on the other substrate is the same as either the first voltage or the second voltage.

67. (Canceled)

68. (New) A liquid crystal display apparatus according to claim 16, wherein each of said stripe electrodes is opposed to said transparent electrode, with the alignment layer and the liquid crystal being interposed therebetween.

69. (New) A liquid crystal display apparatus according to claim 16, wherein the liquid crystal has a positive anisotropy and is vertically aligned when no electric field is formed.

70. (New) A liquid crystal display apparatus according to claim 17, wherein volume resistivity of the insulating layer is not less than $10^{13}\Omega\text{cm}$, while volume resistivity of the alignment layer is not less than $10^{10}\Omega\text{cm}$ and not more than $10^{12}\Omega\text{cm}$.

71. (New) A liquid crystal display apparatus according to claim 29, wherein a part of the insulating layer is removed in such a manner that one of the first and second groups of said electrodes is exposed to the liquid crystal.